

originally submitted. Said second set of Figs. 1, 10-12 is being separately filed before the Official Draftsperson.

In the Specification:

At page 19, line 21, delete "( | i<sub>a</sub> - i<sub>b</sub> | - | i<sub>c</sub> - i<sub>d</sub> | )" and substitute therefore - - ( | i<sub>a</sub> - i<sub>b</sub> | + | i<sub>c</sub> - i<sub>d</sub> | ) - -. At page 19, line 25, delete "( | i<sub>a</sub> - i<sub>b</sub> | - | i<sub>c</sub> - i<sub>d</sub> | )" and substitute therefore - - ( | i<sub>a</sub> - i<sub>b</sub> | + | i<sub>c</sub> - i<sub>d</sub> | ) - -. An amended copy showing strike-outs and add-ins of twice page 19 and a separate clean copy of twice page 19 are attached.

In the Claims:

Amend the claims 1-24 and add new claims 25-26 as follows.

1.(Twice-Amended) An apparatus for detecting the phase and amplitude of electromagnetic waves, ~~preferably in the optical and in the near infrared and ultraviolet ranges,~~ comprising at least two modulation photogates (1, 2) which are sensitive to the electromagnetic waves (photosensitive), and accumulation gates (4, 5) which are associated with the modulation photogates, ~~said accumulation gates (4,5)~~ being neither photosensitive nor shaded, and electrical connections for the modulation photogates (1, 2) and the accumulation gates (4, 5), so that the latter can be connected to a reading-out device, and the former can be connected to a modulating device which increases or reduces the potential of the modulation photogates (1, 2) relative to each other and relative to [the] ~~a preferably constant~~ potential of the accumulation gates (4, 5) corresponding to a desired modulation function, characterised in that there are provided a plurality of modulation photogates (1, 2) and accumulation gates (4, 5) ~~in the form being formed~~ of long narrow parallel strips which group-wise form a PMD-pixel, wherein the accumulation gates are ~~in the form of~~ reading-out diodes with ~~preferably in each case the cathode of each diode being a as the~~ reading-out electrode.